

10/584057

Docket No. 291461US0PCT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PCT/PTO 22 JUN 2006

IN RE APPLICATION OF: Takuji OKAMOTO, et al.

SERIAL NO: New U.S PCT Application Based on PCT/JP05/00858

GAU:

FILED: Herewith

EXAMINER:

FOR: TRANSITION METAL COMPOUND AND CATALYST FOR OLEFIN POLYMERIZATION

## INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS  
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

## REFERENCES

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

## RELATED CASES

- ☐ Attached is a list of applicant's pending application(s), published application(s) or issued patent(s) which may be related to the present application. In accordance with the waiver of 37 CFR 1.98 dated September 21, 2004, copies of the cited pending applications are not provided. Cited published and/or issued patents, if any, are listed on the attached PTO form 1449.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).


## CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

## DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,  
MAIER & NEUSTADT, P.C.  
Norman F. Oblon

Norman F. Oblon

Registration No. 24,618

Customer Number

22850

Tel. (703) 413-3000  
Fax. (703) 413-2220  
(OSMMN 05/03)

Surinder Sachar

Registration No. 34,423

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 291461US0PCT		SERIAL NO. <b>10/584057</b> New U.S. PCT Application Based on PCT/JP05/00858	
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT Takuji OKAMOTO, et al.			
				FILING DATE Herewith		GROUP	
				U.S. PATENT DOCUMENTS			
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO		
/CL/	AC	0 661 300	7/5/1995	EP			NO
	AD	58-19309	2/4/1983	JP			NO
	AE	60-217209	10/30/1985	JP(with English abstract)			NO
	AF	1-502636	9/14/1989	JP(with equivalent of WO 88/04526)			NO
	AG	03-139504	6/13/1991	JP(with English abstract)			NO
	AH	0 468 651	1/29/1992	EP			NO
	AI	03-207704	9/11/1991	JP(with English abstract)			NO
	AJ	92/01723	2/6/1992	WO(with English abstract)			NO
	AK	93/20113	10/14/1993	WO(with English abstract)			NO
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
/CL/	AL	BRANDOW, Christopher G. et al., "Ancillary Ligand and Olefin Substituent Effects on Olefin Dissociation for Cationic Zirconocene Complexes Bearing a Coordinated Pendant Olefin", Organometallics, Vol. 20, No.20, Pages 4253-4261, 2001.					
	AM	BRESLOW, David S. et al., "Bis-(cyclopentadienyl)-titanium Dichloride-Alkylaluminum Complexes as Soluble Catalysts for the Polymerization of Ethylene", JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, Vol. 81, Pages 81-87, January 5, 1959.					
	AN	ROBERTS, Royston M. et al., "MALONONITRILE", JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, Vol. 82, Pages 1952-1957, April 20, 1960.					
	AO	EISCH, John J. et al., "Direct Observation of the Initial Insertion of an Unsaturated Hydrocarbon into the Titanium-Carbon Bond of the Soluble Ziegler Polymerization catalyst, Cp <sub>2</sub> TiCl <sub>2</sub> -MeAlCl <sub>2</sub> ", Journal of American Chemical Society, Vol. 107, No. 24, Pages 7219-7221, November 27, 1985.					
	AP	JORDAN, Richard F. et al., "Ethylene Polymerization by a Cationic Dicyclopentadienylzirconium (IV) Alkyl Complex", Journal of American chemical Society, Vol. 108, NO. 23, Pages 7410-7411, November 12, 1986.					
	AQ	MENGELE, Winfried et al. "ansa-Metallocene Derivatives. 27. Chiral Zirconocene Complexes with Two Dimethylsilylene Bridges", Organometallics, Vol. 12, No. 5, Pages 1931-1935, May 1993.					
	AR	DORER, Birgit et al., "Syntheses and Structures of Titanocene, Zirconocene, and Vanadocene Dichloride Complexes with Two Ethanediyl Bridges", Organometallics, Vol.13, No.10, Pages 3868-3872, October 1994.					
	AS	HAYS, Melanie L. et al., "Steric Influence on the Structure, Magnetic Properties, and Reactivity of Hexa- and Octaisopropylmanganocene", Organometallics, Vol. 17, No. 25, Pages 5521-5527, December 7, 1998.					
	AT	HERZOG, Timothy A. et al., "A New Class of Zirconocene Catalysts for the Syndiospecific Polymerization of Propylene and Its Modification for Varying Polypropylene from Isotactic to Syndiotactic", Journal of American Chemical Society, Vol. 118, No.27, Pages 11988-11989, November 27, 1996.					<input type="checkbox"/> Additional References sheet(s) attached
Examiner <b>/C Lu/ (02/07/2008)</b>					Date Considered		
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

New U.S. PCT Application Based on PCT/JP05/00858

Takuji OKAMOTO, et al.

Docket No. 291461 US

#### STATEMENT OF RELEVANCY

- 1) References AC & AL have been cited in the International Search Report. A copy of these references is being submitted herewith.
- 2) References            have been cited in the corresponding            Search Report. A copy of these references is being submitted herewith.
- 3) References AD - AK & AM - AT are discussed in the specification. A copy of these references is being submitted herewith.
- 4) References            are additional prior art known to Applicant. A copy of these references is being submitted herewith.